

**OCO applications workshop agenda**  
12-13 February 2014  
Joint Global Change Research Institute, College Park, MD  
(revised 13 Jan 2013)

**Context**

OCO-2 is scheduled for launch in July 2014. Following in-orbit checkout and initial data calibration and verification, preliminary OCO-2 data products will be available in spring 2015. There will likely be additional opportunities for synergy with other data sets in 2015 due to airborne and surface measurement campaigns supporting validation of OCO-2 CO<sub>2</sub> and chlorophyll fluorescence and also data-fusion experiments between OCO-2 and the Soil Moisture Active/Passive (SMAP) mission, launching in November 2014. All of the above will also lay the groundwork for future availability of OCO-3 data products (in late 2016, early 2017). An OCO applications workshop is needed now to identify needs, opportunities and help frame potential future activities to further develop and exploit the OCO data sets to deliver information relevant to societal needs.

**Workshop Objectives**

1) Create community awareness of OCO-2/OCO-3 capabilities 2) Solicit statements of stakeholder needs 3) Identify specific applications (or topic areas) to work towards in preparation for OCO-2 and OCO-3 data delivery 4) Provide input to NASA strategic planning and potential future applied science solicitations

Wednesday February 12, 2014		
Time	Topic	Speakers
8:30-9:00	Greeting and workshop introduction/goals	Lawrence Friedl and Lucien Cox (NASA HQ)
9:00-10:00 (incl 20 min Q&A)	OCO-2 and OCO-3 mission overview, data products and timeline	Mike Gunson (JPL)
10:00-10:15	Break	
10:15-10:45 (incl 15 min Q&A)	OCO applications (initial framing, gaps, opportunities)	Riley Duren (JPL)
10:45-12:00 (four 10 min talks followed by plenary discussion)	Panel session #1: User Perspectives*	Bill Irving (EPA), Marlen Eve (USDA), Rich Birdsey (USFS), Jae Edmonds (PNNL)

12:00-1:15	Lunch	
1:15-2:15 (three 10 min talks followed by plenary discussion)	Panel session #2: Energy, Urban Carbon/Climate, and Air-quality Applications**	Kevin Gurney (ASU), Ave Arrelano (UofA), TBD
2:15-3:15 (three 10 min talks followed by plenary discussion)	Panel session #3: Agriculture, Forestry, & Ecological Forecasting/ Climate Projection Applications**	Darren Drewry (JPL), Chris Woodall (USFS), TBD
3:15-3:30	Break	
3:30-5:00	Breakout session (s)	
5:00-5:30	Closing comments for day 1 and progress check	
<b>Thursday February 13, 2014</b>		
08:30-9:15	Review previous day and breakout summaries	
9:15-10:15 (three 10 min talks followed by plenary discussion)	Panel session #4: Potential future applications (oceans, weather, natural hazards/fire)	Steve Lohrenz (UMassD), Steve Pawson (GSFC), TBD (fire)
10:15-10:30	break	
10:30-11:30	Plenary discussion of opportunities and needs	
11:30-12:00	Wrap-up: action items and future steps	
12:00	adjourn	

\*User needs panelists will offer perspectives of needs for carbon information that are potentially relevant to the OCO missions. This will be followed by 35 minutes moderated Q&A and plenary discussion.

\*\*Applications panelists will provide ideas on how OCO data might be applied to the indicated themes. The intent is to stimulate discussion and suggest future steps.